

Recombinant Human MYL6, His-tagged

Cat. No. MYL6-30266TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MYL6 with an N terminal His tag; 171 amino acids with a predicted MWt 19.1 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	151 amino acids
Description	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain that is expressed in smooth muscle and non-muscle tissues. Genomic sequences representing several pseudogenes have been described and two transcript variants encoding different isoforms have been identified for this gene.
Conjugation	HIS
Molecular Weight	19.100kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDV MRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQTVAKNKDQGTIEDYV EGLRVFDKEGNGTVMGAIEIRHVLVTLGEKMTTEEEVEMLVAGHEDSNGCINYEELVR MVLNG
Sequence Similarities	Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name	MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle [Homo sapiens]
Official Symbol	MYL6
Synonyms	MYL6; myosin, light chain 6, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6, alkali, smooth muscle and non muscle; myosin light polypeptide 6; ESMLC; MLC1SM; MLC3NM;
Gene ID	4637
mRNA Refseq	NM_021019
Protein Refseq	NP_066299
MIM	609931
Uniprot ID	P60660

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Chromosome Location	12q13.13
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Muscle contraction, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem;
Function	actin-dependent ATPase activity; calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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